

SOLICITATION, OFFER AND AWARD		1. THIS CONTRACT IS A RATED ORDER UNDER DPAS (15 CFR 350)		RATING DO-C9	PAGE OF 1 23 PAGES
2. CONTRACT NO.	3. SOLICITATION NO. N00173-03-R-CR12	4. TYPE OF SOLICITATION <input type="checkbox"/> SEALED BID (IFB) <input checked="" type="checkbox"/> NEGOTIATED (RFP)	5. DATE ISSUED 8 DEC 03	6. REQUISITION/PURCHASE NO. 57-2188-03	
7. ISSUED BY CONTRACTING OFFICER NAVAL RESEARCH LABORATORY ATTN: CODE 3220.CR WASHINGTON DC 20375-5326		8. ADDRESS OFFER TO (If other than Item 7) CODE N00173			

NOTE: In sealed bid solicitations "offer" and "offeror" mean "bid" and "bidder".

SOLICITATION

9. Sealed offers in original and 4 copies for furnishing the supplies or services in the Schedule will be received at the place specified in Item 8, or if handcarried, in the depository located in See Section L-2 until 4PM local time 13 JAN 04
(Hour) (Date)

CAUTION - LATE Submissions, Modifications, and Withdrawals: See Section L, Provision No. 52.214-7 or 52.215-10. All offers are subject to all terms and conditions contained in this solicitation.

10. FOR INFORMATION CALL:	A. NAME Alan Wayne Crupi	B. TELEPHONE NO. (Include area code) (NO COLLECT CALLS) (202) 767-3595
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OFFER (Must be fully completed by offeror)

NOTE: Item 12 does not apply if the solicitation includes the provisions at 52.214-18, Minimum Bid Acceptance Period.

12. In compliance with the above, the undersigned agrees, if this offer is accepted within _____ calendar days (60 calendar days unless a different period is inserted by the offeror) from the date for receipt of offers specified above, to furnish any or all items upon which prices are offered at the price set opposite each item, delivered at the designated point(s), within the time specified in the schedule.

13. DISCOUNT FOR PROMPT PAYMENT (See Section I, Clause No. 52-232-8)	10 CALENDAR DAYS %	20 CALENDAR DAYS %	30 CALENDAR DAYS %	CALENDAR DAYS %
14. ACKNOWLEDGMENT OF AMENDMENTS (The offeror acknowledges receipt of amendments to the SOLICITATION for offerors and related documents numbered and dated:	AMENDMENT NO.	DATE	AMENDMENT NO.	DATE

15A. NAME AND ADDRESS OF OFFEROR	CODE	FACILITY	16. NAME AND TITLE OF PERSON AUTHORIZED TO SIGN OFFER (Type or print)
15B. TELEPHONE NO. (Include area code)			15C. CHECK IF REMITTANCE ADDRESS IS DIFFERENT FROM ABOVE - ENTER SUCH ADDRESS IN SCHEDULE.
17. SIGNATURE		18. OFFER DATE	

AWARD (To be completed by Government)

19. ACCEPTED AS TO ITEMS NUMBERED	20. AMOUNT	21. ACCOUNTING AND APPROPRIATION
22. AUTHORITY FOR USING OTHER THAN FULL AND OPEN COMPETITION: <input type="checkbox"/> 10 U.S.C. 2304(c) () <input type="checkbox"/> 41 U.S.C. 253(c) ()		23. SUBMIT INVOICES TO ADDRESS SHOWN IN <input type="checkbox"/> ITEM (4 copies unless otherwise specified)
24. ADMINISTERED BY (If other than Item 7) CODE		25. PAYMENT WILL BE MADE BY CODE
26. NAME OF CONTRACTING OFFICER (Type or print)		27. UNITED STATES OF AMERICA (Signature of Contracting Officer)
		28. AWARD DATE

IMPORTANT - Award will be made on this Form, or on Standard Form 26, or by other authorized official written notice.

**PART I - THE SCHEDULE
SECTION B
SUPPLIES OR SERVICES AND PRICES/COSTS**

B-1 SUPPLIES/SERVICES AND COSTS

ITEM NUMBER	SUPPLIES/SERVICES	ESTIMATED COST	FIXED FEE	ESTIMATED COST PLUS FIXED FEE
0001	The Contractor shall provide Research and Development, Engineering and Technical support in accordance with Section C.	\$	\$	\$
0002	Data in accordance with Exhibit A (DD 1423).	NSP*	NSP	NSP

TOTAL EST. COST PLUS FIXED FEE	\$	\$	\$
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** Not Separately Priced*

NOTICE TO OFFERORS: In addition to inserting the estimated cost and fixed fee for the base year above, the estimated cost and fixed fee for each optional extension of the term of the contract are to be inserted in Section H.

SECTION C
DESCRIPTION/SPECIFICATIONS/STATEMENT OF WORK

C-1 STATEMENT OF WORK

The work and services to be performed hereunder shall be subject to the requirements and standards contained in Attachment (1), Statement of Work, with Exhibit A, Contract Data Requirements List, and all other Attachments cited in Section J, which are incorporated by reference into Section C.

C-2 REQUIREMENTS FOR ON-SITE CONTRACTORS

For those portions of the work under this contract performed at any NRL site, the contractor shall comply with the Requirements for On-Site Contractors dated 08 October 2002, which are hereby incorporated by reference. The full text is available at <http://heron.nrl.navy.mil/contracts/home.htm>.

SECTION D
PACKAGING AND MARKING

D-1 PACKAGING AND MARKING

Preservation, packaging, packing and marking of all deliverable contract line items must conform to normal commercial packing standards to assure safe delivery at destination.

SECTION E
INSPECTION AND ACCEPTANCE

E-1 INSPECTION AND ACCEPTANCE CLAUSES INCORPORATED BY REFERENCE**FAR CLAUSE TITLE**

- | | | |
|----------|---|--|
| 52.246-8 | - | Inspection Of Research And Development - Cost Reimbursement (MAR 2001) |
| 52.246-9 | - | Inspection Of Research And Development (Short Form) (APR 1984) |

DFARS CLAUSE TITLE

- | | | |
|--------------|---|---|
| 252.246-7000 | - | Material Inspection And Receiving Report (MAR 2003) |
|--------------|---|---|

E-2 INSPECTION AND ACCEPTANCE

Inspection and acceptance of the final delivery will be accomplished by the Technical Manager (TM) or Contracting Officer Representative (COR) designated in Section G of this contract. Inspection and acceptance will be performed at the Naval Research Laboratory, Washington DC 20375-5320.

SECTION F DELIVERIES OR PERFORMANCE

F-1 DELIVERIES OR PERFORMANCE CLAUSES INCORPORATED BY REFERENCE:

FAR CLAUSE TITLE

52.242-15 - Stop-Work Order (AUG 1989) - Alternate I (APR 1984)
52.247-34 - F.O.B. Destination (NOV 1991)

F-2 PERIOD AND PLACE OF PERFORMANCE

- (a) The term of this contract is from date of contract award through 12 months thereafter with (4) options that will extend the period of performance for an additional 12 months each, if exercised.
- (b) The principal place of performance of this contract shall be at the Naval Research Laboratory, Washington, D.C., 20375.

SECTION G CONTRACT ADMINISTRATION DATA

G-1 PROCURING OFFICE REPRESENTATIVE

In order to expedite administration of the contract, the Administrative Contracting Officer (ACO) will direct inquiries to the appropriate office listed below. Please do not direct routine inquiries to the person listed in Item 20A on Standard Form 26.

Security Matters- Contracting Officer for Security, Code 1221, (202) 767-2240, DSN 297-2240, email security-group@nrl.navy.mil

Safety Matters- Head Safety Branch, Code 3540, (202) 767-2232, DSN 297-2232, email safety@nrl.navy.mil

Patent Matters-Associate Counsel (Intellectual Property), Code 1008.2, (202) 404-1552, DSN 297-1552, email patents@nrl.navy.mil

Release of Data-Public Affairs Officer, Code 1030 (202) 767-2541, DSN 297-2541, email publicaffairs@nrl.navy.mil

G-2 CONTRACTING OFFICER'S REPRESENTATIVE (COR) - FUNCTIONS AND LIMITATIONS

* is hereby designated the cognizant COR who will represent the Contracting Officer in the administration of technical details within the scope of this contract and inspection and acceptance. The COR is not otherwise authorized to make any representations or commitments of any kind on behalf of the Contracting Officer or the Government. The COR does not have the authority to alter the Contractor's obligations or change the specifications in the contract. If, as a result of technical

discussions, it is desirable to alter contract obligations or statements of work, a modification must be issued in writing and signed by the Contracting Officer. The COR is responsible for reviewing the bills and charges submitted by the Contractor and informing the ACO of areas where exceptions are to be taken.

*(* To be completed at time of award)*

G-3 TECHNICAL DIRECTION MEMORANDUM (TDM)

- (a) For the purposes of this clause, technical direction includes the following:
 - (1) Direction to the Contractor which shifts work emphasis between work areas or tasks, requires pursuit of certain lines of inquiry, fills in details or otherwise describes work which will accomplish the objectives described in the statement of work;
 - (2) Guidelines to the Contractor, which assist in interpretation of drawings, specifications or technical portions of, work description.
- (b) Technical instructions must be within the scope of work stated in the contract. Technical instructions may not be used to:
 - (1) Assign additional work under the contract;
 - (2) Direct a change as defined in the contract clause entitled "Changes";
 - (3) Increase or decrease the estimated contract cost, the fixed fee, or the time required for contract performance; or
 - (4) Change any of the terms, conditions or specifications of the contract
- (c) The TDM shall be written by the Contracting Officer's Representative (COR), with the original given to the Contractor and a copy retained in the CORs file. Technical direction may be issued orally only in emergency situations. If technical direction is issued orally, a TDM must follow within two (2) working days from the date of the oral direction. Amendments, corrections, or changes to TDMs shall also be in written format and shall include all the information set forth in paragraph (e) below.
- (d) A TDM shall be considered issued when the Government deposits it in the mail, or if transmitted by other means, when it is physically delivered to the contractor.
- (e) TDMs shall include, but not be limited to, the following information:
 - (1) Date of TDM,
 - (2) Contract Number,
 - (3) Reference to the relevant portion or item in the Statement of Work,
 - (4) The specific technical direction or clarification, and
 - (5) The signature of the COR.
- (f) CORs shall retain all files containing TDMs for a period of two (2) years after the final contract completion date.
- (g) The only individual authorized in any way to amend or modify any of the terms of this contract shall be the Contracting Officer. When, in the opinion of the Contractor, any technical direction calls for effort outside the scope of the contract or inconsistent with this special provision, the Contractor shall notify the Contracting Officer in writing within ten (10) working days after its receipt.

G-4 SUBCONTRACTORS/CONSULTANTS

(a) Advance notification or requests for consent pursuant to the contract clause entitled "Subcontracts" (FAR 52.244-2) shall be directed to the cognizant administrative contracting officer (ACO).

(b) The following subcontractors/consultants have been identified in the Contractor's proposal as necessary for performance of this contract:

Subcontractor/Consultant Name

Estimated Cost

(Paragraph (b) will be included and filled in at time of award if subcontractor/consultants are proposed by the successful offeror)

G-5 INCREMENTAL FUNDING

Pursuant to the Limitation of Funds clause (FAR 52.232-22), the total amount allotted to this contract is \$ * and it is estimated that this amount is sufficient for contract performance through * .

*(* this provision will be included and completed at time of award, if applicable)*

G-6 INFORMATIONAL SUBLINE ITEMS

It is anticipated that the research and development services performed under this contract will be paid for from multiple sources of funds. Informational subline items will be established as necessary to identify each accounting citation classification.

G-7 SPECIAL PAYMENT INSTRUCTIONS- MULTIPLE ACCOUNTING CLASSIFICATION CITATIONS (COST-REIMBURSEMENT)

Payments shall be made in accordance with the ACRN(s) cited on the contractor's invoice. The Contractor may contact the COR regarding which ACRN(s) to cite on an invoice.

SECTION H SPECIAL CONTRACT REQUIREMENTS

H-1 TYPE OF CONTRACT

This is a *

*(* To be completed at time of award)*

H-2 ONR 5252.237-9705 - KEY PERSONNEL (DEC 88)

(a) The Contractor agrees to assign to the contract tasks those persons whose resumes were submitted with its proposal and who are necessary to fulfill the requirements of the contract as "key personnel". No substitutions may be made except in accordance with this clause.

(b) The Contractor understands that during the first ninety (90) days of the contract performance period, no personnel substitutions will be permitted unless these substitutions are unavoidable

because of the incumbent's sudden illness, death or termination of employment. In any of these events, the Contractor shall promptly notify the Contracting Officer and provide the information described in paragraph (c) below. After the initial ninety (90) day period the Contractor must submit to the Contracting Officer all proposed substitutions, in writing, at least thirty (30) days in advance (sixty (60) days if security clearance must be obtained) of any proposed substitution and provide the information required by paragraph (c) below.

(c) Any request for substitution must include a detailed explanation of the circumstances necessitating the proposed substitution, a resume for the proposed substitute, and any other information requested by the Contracting Officer. Any proposed substitute must have qualifications equal to or superior to the qualifications of the incumbent. The Contracting Officer or his/her authorized representative will evaluate such requests and promptly notify the Contractor of his/her approval or disapproval thereof.

(d) In the event that any of the identified key personnel cease to perform under the contract and the substitute is disapproved, the contract may be immediately terminated in accordance with the Termination clause of the contract.

The following are identified as key personnel: *

Labor Category	First/M/Last Name
Computer Scientist	*
Sr. Software Engineer	*
Sr. Program Manager	*
Systems Engineer	*
Sr. Computer Networking Specialist	*
Sr. Intranet Specialist	*

(* To be completed at time of award)

H-3 ONR 5252.216-9706 - LEVEL OF EFFORT (DEC 88)

(a) The Contractor agrees to provide the total level of effort specified in the next sentence in performance of the work described in this contract. The total level of effort for performance of this contract shall be 24,490 total hours of direct labor for the basic award and 24,490 total hours for each option period, if exercised, including subcontractor direct labor for those subcontractors specifically identified in the Contractor's proposal as having hours included in the proposed level of effort. A breakdown of labor categories and hours is set forth in paragraph (k) below.

(b) The level of effort for this contract shall be expended at an average rate of 2040 hours per month. It is understood and agreed that the rate of hours per month may fluctuate in pursuit of the technical objective, provided such fluctuation does not result in the use of the total hours of effort

prior to the expiration of the term of the contract.

(c) The Contractor is required to notify the Contracting Officer when any of the following situations occur, or are anticipated to occur: If during any three consecutive months the monthly average is exceeded by 25% or, if at any time it is forecast that during the last three months of the contract less than 50% of the monthly average will be used during any given month; or, when 85% of the total level of effort has been expended.

(d) If, during the term of the contract, the Contractor finds it necessary to accelerate the expenditure of direct labor to such an extent that the total hours of effort specified would be used prior to the expiration of the term, the Contractor shall notify the Contracting Officer in writing, setting forth the acceleration required, the probable benefits which would result, and an offer to undertake the acceleration at no increase in the estimated cost or fixed fee together with an offer setting forth a proposed level of effort, cost breakdown, and proposed fixed fee for continuation of the work until expiration of the term hereof. The offer shall provide that the work proposed will be subject to the terms and conditions of this contract and any additions or changes required by then current law, regulations, or directives, and that the offer, with a written notice of acceptance by the Contracting Officer, shall constitute a binding contract. The Contractor shall not accelerate any effort until receipt of such written approval by the Contracting Officer. Any agreement to accelerate will be formalized by contract modification.

(e) The Contracting Officer may, by written order, direct the Contractor to accelerate the expenditure of direct labor such that the total hours of effort specified in paragraph (a) above would be used prior to the expiration of the term. This order shall specify the acceleration required and the resulting revised term. The Contractor shall acknowledge this order within five days of receipt.

(f) If the total level of effort specified in paragraph (a) above is not provided by the Contractor during the term of this contract, the Contracting Officer shall either (i) reduce the fixed fee of this contract as follows:

$$\text{Fee Reduction} = \text{Fixed Fee} \times \frac{(\text{Required LOE Hours} - \text{Expended LOE Hours})}{\text{Required LOE Hours}}$$

or (ii) subject to the provisions of the clause of this contract entitled "Limitation of Cost," require the Contractor to continue to perform the work until the total number of hours of direct labor specified in paragraph (a) shall have been expended, at no increase in the fixed fee of this contract.

(g) In the event the government fails to fully fund the contract in a timely manner, the term of the contract may be extended accordingly with no change to cost or fee. If the government fails to fully fund the contract, the fee will be adjusted in direct proportion to that effort which was performed.

(h) Notwithstanding any of the provisions in the above paragraphs, the Contractor may furnish hours up to five percent in excess of the total hours specified in paragraph (a) above, provided that the additional effort is furnished within the term hereof, and provided further that no increase in the estimated cost or fixed fee is required, and no adjustment in the fixed fee shall be made provided that the Contractor has delivered at least 95% of the level of effort required in paragraph (a) above.

(i) It is understood that the mix of labor categories provided by the Contractor under the contract, as well as the distribution of effort among those categories, may vary considerably from the initial mix and distribution of effort which was estimated by the government or proposed by the Contractor.

(j) Nothing herein shall be construed to alter or waive any of the rights or obligations of either party pursuant to the Clause entitled "Limitation of Costs" or "Limitation of Funds," either of which clauses as incorporated herein applies to this contract.

(k) The anticipated breakdown by labor category of the total level of effort is as follows:

LABOR CATEGORY	Basic	Option I	Option II	Option III	Option IV
Computer Scientist (Key Personnel)	1880	1880	1880	1880	1880
Sr. Software Engineer (Key Personnel)	1880	1880	1880	1880	1880
Software Engineer	5640	5640	5640	5640	5640
Sr. RF Engineer	1880	1880	1880	1880	1880
RF Engineer	1880	1880	1880	1880	1880
Technician General Design / Support	1880	1880	1880	1880	1880
Component Engineer / Procurement Spec.	470	470	470	470	470
Sr. Program Manager (Key Personnel)	1880	1880	1880	1880	1880
Project Coordinator	940	940	940	940	940
Sr. Technical Writer / Editor	940	940	940	940	940
Sr. Designer / Graphics / Multimedia	940	940	940	940	940
Systems Engineer (Key Personnel)	2400	2400	2400	2400	2400
Sr. Computer Networking Specialist (Key Personnel)	940	940	940	940	940
Sr. Intranet Specialist (Key Personnel)	940	940	940	940	940
Totals	24,490	24,490	24,490	24,490	24,490

H-4 ONR 5252.235-0714 - REPORT PREPARATION (FEB 02)

Scientific or technical reports prepared by the Contractor and deliverable under the terms of this contract will be prepared in accordance with format requirements contained in ANSI/NISO Z39.18-1995, Scientific and Technical Reports: Elements, Organization, and Design.

[NOTE: All NISO American National Standards are available as free, downloadable pdf(s) at <http://www.niso.org/standards/index.html> . NISO standards can also be purchased in hardcopy form from NISO Press Fulfillment, P. O. Box 451, Annapolis Junction, MD 20701-0451 USA. Telephone U.S. and Canada: (877) 736-6476; Outside the U.S. and Canada: 301-362-6904 Fax: 301-206-9789.]

H-5 ELECTRONIC AND INFORMATION TECHNOLOGY (EIT)

In accordance with Section 508 of the Rehabilitation Act of 1973 (29 U.S.C. 794d), all EIT supplies and services provided under this contract must comply with the applicable accessibility standards issued by the Architectural and Transportation Barriers Compliance Board at 36 CFR part 1194 (see FAR Subpart 39.2). Electronic and information technology (EIT) is defined at FAR 2.101.

H-6 OPTION TO EXTEND THE TERM OF THE CONTRACT

This contract shall be renewable at the unilateral option of the Government by the Contracting Officer giving written notice of renewal to the Contractor within the existing term of the contract. The Government may exercise its option to renew the contract a total of four (4) times and each such renewal shall extend the term of the contract by twelve (12) months. The Contractor agrees that performance under each such renewal shall be accomplished in accordance with all of the terms and conditions of this contract and at the estimated cost and fixed fee set forth below:

First Option

Estimated Cost:	\$
Fixed Fee:	\$
Estimated Cost Plus Fixed Fee:	\$

Second Option

Estimated Cost:	\$
Fixed Fee:	\$
Estimated Cost Plus Fixed Fee:	\$

Third Option

Estimated Cost:	\$
Fixed Fee:	\$
Estimated Cost Plus Fixed Fee:	\$

Fourth Option

Estimated Cost:	\$
Fixed Fee:	\$
Estimated Cost Plus Fixed Fee:	\$

H-7 ON-SITE USE OF GOVERNMENT PROPERTY

Government facilities and equipment specified or approved for use in the performance of any portion of the contract at the U.S. Naval Research Laboratory (NRL) or any of its field sites may be used by the contractor's personnel on a rent free basis. All such property shall be considered to remain in the possession and control of the NRL for property responsibility and accountability purposes.

H-8 REPRESENTATIONS AND CERTIFICATIONS

The Contractor's completed Representations, Certifications, and Other Statements of Offerors or Respondents is incorporated herein by reference in any resultant award.

PART II - CONTRACT CLAUSES
SECTION I
CONTRACT CLAUSES

I-1 52.252-2 - CLAUSES INCORPORATED BY REFERENCE (FEB 1998)

This contract incorporates one or more clauses by reference, with the same force and effect as if they were given in full text. Upon request, the Contracting Officer will make their full text available. Also, the full text of a clause may be accessed electronically at this/these address(es):

<http://www.arnet.gov/far>

<http://heron.nrl.navy.mil/contracts/home.htm>

a. FEDERAL ACQUISITION REGULATION CLAUSES

FAR CLAUSE	TITLE
52.202-1	- Definitions (DEC 2001)
52.203-3	- Gratuities (APR 1984)
52.203-5	- Covenant Against Contingent Fees (APR 1984)
52.203-6	- Restrictions On Subcontractor Sales To The Government (JUL 1995)
52.203-7	- Anti-Kickback Procedures (JUL 1995)
52-203-8	- Cancellation, Rescission, And Recovery Of Funds For Illegal Or Improper Activity (JAN 1997)
52.203-10	- Price Or Fee Adjustment For Illegal Or Improper Activity (JAN 1997)
52.203-12	- Limitation On Payments To Influence Certain Federal Transactions (JUN 2003)
52.204-2	- Security Requirements (AUG 1996)
52.204-4	- Printed Or Copied Double-Sided On Recycled Paper (AUG 2000)
52.209-6	- Protecting The Government's Interest When Subcontracting With Contractors Debarred, Suspended, Or Proposed For Debarment (JUL 1995)
52.211-15	- Defense Priority And Allocation Requirements (SEP 1990)
52.215-2	- Audit And Records-Negotiation (JUN 1999)
52.215-8	- Order Of Precedence - Uniform Contract Format (OCT 1997)
52.215-11	- Price Reduction For Defective Cost Or Pricing Data - Modifications (OCT 1997)
52.215-13	- Subcontractor Cost Or Pricing Data Modifications (OCT 1997)
52.215-14	- Integrity Of Unit Prices (OCT 1997)
52.215-15	- Pension Adjustments And Asset Reversions (DEC 1998)
52.215-17	- Waiver Of Facilities Capital Cost Of Money (OCT 1997)

(will be included if the successful offeror does not propose facilities capital cost of money)

- 52.215-18 - Reversion Or Adjustment Of Plans For Post-Retirement Benefits (PRB) Other Than Pensions (OCT 1997)
- 52.215-19 - Notification Of Ownership Changes (OCT 1997)
- 52.215-21 - Requirements For Cost Or Pricing Data Or Information Other Than Cost or Pricing Data -Modifications (OCT 1997)
- 52.216-7 - Allowable Cost And Payment (DEC 2002) (fill in 30th)
- 52.216-8 - Fixed-Fee (MAR 1997)
- 52.219-6 - Notice Of Total Small-Business Set-Aside (JUN 2003)
- 52.219-8 - Utilization Of Small Business Concerns (OCT 2000)
- 52.219-14 - Limitations On Subcontracting (DEC 1996)
- 52.222-2 - Payment For Overtime Premiums (JUL 1990) -The Use Of Overtime Is Authorized Under This Contract If The Overtime Premium Does Not Exceed "0"
- 52.222-3 - Convict Labor (JUN 2003)
- 52.222-21 - Prohibition Of Segregated Facilities (FEB 1999)
- 52.222-26 - Equal Opportunity (APR 2002)
- 52.222-35 - Equal Opportunity For Special Disabled Veterans, Veterans Of The Vietnam Era, And Other Eligible Veterans (DEC 2001)
- 52.222-36 - Affirmative Action For Workers With Disabilities (JUN 1998)
- 52.222-37 - Employment Reports On Special Disabled Veterans, Veterans Of The Vietnam Era, And Other Eligible Veterans (DEC 2001)
- 52.223-3 - Hazardous Material Identification And Material Safety Data (JAN 1997)
- 52.223-5 - Pollution Prevention And Right-To-Know Information (AUG 2003)
- 52.223-6 - Drug-Free Workplace (MAY 2001)
- 52.223-10 - Waste Reduction Program (AUG 2000)
- 52.223-14 - Toxic Chemical Release Reporting (AUG 2003)
- 52.225-13 - Restrictions On Certain Foreign Purchases (OCT 2003)
- 52.227-1 - Authorization And Consent (JUL 1995)- Alternate I (APR 1984)
- 52.227-2 - Notice And Assistance Regarding Patent And Copyright Infringement (AUG 1996)
- 52.227-10 - Filing Of Patent Application- Classified Subject Matter (APR 1984)
- 52.227-11 - Patent Rights - Retention By The Contractor (Short Form) (JUN 1997)
- 52.228-7 - Insurance - Liability To Third Persons (MAR 1996)
- 52.232-9 - Limitation On Withholding Of Payments (APR 1984)
- 52.232-17 - Interest (JUN 1996)
- 52.232-18 - Availability Of Funds (APR 1984)
- 52.232-20 - Limitation Of Cost (APR 1984) (Applicable when the contract or task order is fully funded)
- 52.232-22 - Limitation Of Funds (APR 1984) (Applicable when the contract or task order is not fully funded)
- 52.232-23 - Assignment Of Claims (JAN 1986) Alternate I (APR 1984)
- 52.232-25 - Prompt Payment (OCT 2003)
- 52.232-25 - Prompt Payment (OCT 2003) Alternate I(FEB 2002)
- 52.232-33 - Payment By Electronic Funds Transfer-Central Contractor Registration (OCT 2003)
- 52.233-1 - Disputes (JUL 2002)
- 52.233-3 - Protest After Award (AUG 1996) - Alternate I (JUN 1985)
- 52.237-2 - Protection Of Government Buildings, Equipment And Vegetation (APR 1984)
- 52.242-1 - Notice Of Intent To Disallow Costs (APR 1984)

- 52.242-3 - Penalties For Unallowable Costs (MAY 2001)
- 52.242-13 - Bankruptcy (JUL 1995)
- 52.243-2 - Changes - Cost-Reimbursement (AUG 1987) - Alternate V (APR 1984)
- 52.243-6 - Change Order Accounting (APR 1984)
- 52.243-7 - Notification Of Changes (APR 1984) fill in 30
- 52.244-2 - Subcontracts (AUG 1998) - Alternate I (AUG 1998)
- 52.244-5 - Competition In Subcontracting (DEC 1996)
- 52.244-6 - Subcontracts For Commercial Items And Commercial Components (APR 2003)
- 52.245-5 - Government Property (Cost-Reimbursement, Time-And-Material, Or Labor-Hour Contracts) (JUN 2003) (DEVIATION)
- 52.245-19 - Government Property Furnished "As-Is" (APR 1984)
- 52.246-23 - Limitation Of Liability (FEB 1997)
- 52.246-25 - Limitation Of Liability - Services (FEB 1997)
- 52.247-1 - Commercial Bill Of Lading Notations (APR 1984)
- 52.247-63 - Preference For U. S. Flag Carriers (JUN 2003)
- 52.249-6 - Termination (Cost-Reimbursement) (SEP 1996)
- 52.249-14 - Excusable Delays (APR 1984)
- 52.251-1 - Government Supply Sources (APR 1984)
- 52.252-6 - Authorized Deviations in Clauses (APR 1984)(fill in Defense Federal Acquisition Regulation Supplement (48 CFR Chapter 2))
- 52.253-1 - Computer Generated Forms (JAN 1991)

b. DEPARTMENT OF DEFENSE FEDERAL ACQUISITION REGULATION CLAUSES

DFARS CLAUSE TITLE

- 252.201-7000 - Contracting Officer's Representative (DEC 1991)
- 252.203-7001 - Prohibition On Persons Convicted Of Fraud Or Other Defense Contract Related Felonies (MAR 1999)
- 252.203-7002 - Display Of DoD Hotline Poster (DEC 1991)
- 252.204-7000 - Disclosure Of Information (DEC 1991)
- 252.204-7003 - Control Of Government Personnel Work Product (APR 1992)
- 252.204-7004 - Alternate A (NOV 2003)
- 252.204-7005 - Oral Attestation Of Security Responsibilities (NOV 2001)
- 252.205-7000 - Provision Of Information To Cooperative Agreement Holders (DEC 1991)
- 252.209-7000 - Acquisition From Subcontractors Subject To On-Site Inspection Under The Intermediate-Range Nuclear Forces (INF) Treaty (NOV 1995)
- 252.209-7004 - Subcontracting With Firms That Are Owned Or Controlled By The Government Of A Terrorist Country (MAR 1998)
- 252.215-7000 - Pricing Adjustments (DEC 1991)
- 252.223-7004 - Drug-Free Work Force (SEP 1988)
- 252.223-7006 - Prohibition On Storage And Disposal Of Toxic And Hazardous Materials (APR 1993)
- 252.225-7001 - Buy American Act And Balance Of Payments Program (APR 2003)
- 252.225-7002 - Qualifying Country Sources As Subcontractors (APR 2003)
- 252.225-7012 - Preference For Certain Domestic Commodities (FEB 2003)
- 252.225-7031 - Secondary Arab Boycott Of Israel (APR 2003)

- 252.225-7043 - Antiterrorism/Force Protection Policy For Defense Contractors Outside The United States (JUN 1998) (fill in : Naval Criminal Investigative Service (NCIS), Code 24, telephone, DSN 228-9113 or commercial (202)433-9113)
- 252.226-7001 - Utilization of Indian Organizations and Indian-Owned Economic Enterprises-DoD Contracts (SEP 2001)
- 252.227-7000 - Non Estoppel (OCT 1966)
- 252.227-7001 - Release Of Past Infringement (AUG 1984)
- 252.227-7013 - Rights In Technical Data -- Noncommercial Items (NOV 1995)
- 252.227-7014 - Rights In Noncommercial Computer Software And Noncommercial Computer Software Documentation (JUN 1995)
- 252.227-7016 - Rights In Bid Or Proposal Information (JUN 1995)
- 252.227-7019 - Validation Of Asserted Restrictions--Computer Software (JUN 1995)
- 252.227-7025 - Limitations On The Use Or Disclosure Of Government-Furnished Information Marked With Restrictive Legends (JUN 1995)
- 252.227-7026 - Deferred Delivery Of Technical Data Or Computer Software (APR 1988)
- 252.227-7030 - Technical Data--Withholding Of Payment (MAR 2000)
- 252.227-7034 - Patents--Subcontracts (APR 1984)
- 252.227-7036 - Declaration Of Technical Data Conformity (JAN 1997)
- 252.227-7037 - Validation Of Restrictive Markings On Technical Data (SEP 1999)
- 252.227-7039 - Patents--Reporting Of Subject Inventions (APR 1990)
- 252.231-7000 - Supplemental Cost Principles (DEC 1991)
- 252.232-7003 - Electronic Submission Of Payment Requests (MAR 2003)
- 252.235-7010 - Acknowledgment Of Support And Disclaimer (MAY 1995)
- 252.235-7011 - Final Scientific Or Technical Report (SEP 1999)
- 252.242-7000 - Post Award Conference (DEC 1991)
- 252.242-7004 - Material Management And Accounting System (DEC 2000)
- 252.243-7002 - Requests For Equitable Adjustment (MAR 1998)
- 252.244-7000 - Subcontracts For Commercial Items And Commercial Components (DOD Contracts) (MAR 2000)
- 252.245-7001 - Reports Of Government Property (MAY 1994)
- 252.247-7023 - Transportation Of Supplies By Sea (MAY 2002)
- 252.247-7024 - Notification Of Transportation Of Supplies By Sea (MAR 2000)
(will be included if the successful offeror made a negative response to the inquiry at DFARS 252.247-7022)
- 252.251-7000 - Ordering From Government Supply Sources (OCT 2002)

I-2 FAR 52.223-11 - OZONE-DEPLETING SUBSTANCES (MAY 2001)

(a) **Definitions.** "Ozone-depleting substance", as used in this clause, means any substance the Environmental Protection Agency designates in 40 CFR Part 82 as --

- (1) Class I, including, but not limited to, chlorofluorocarbons, halons, carbon tetrachloride, and methyl chloroform; or
- (2) Class II, including, but not limited to, hydrochlorofluorocarbons.

(b) The Contractor shall label products which contain or are manufactured with ozone-depleting substances in the manner and to the extent required by 42 U.S.C. 7671j (b), (c), and (d) and 40 CFR Part 82, Subpart E, as follows:

WARNING

Contains (or manufactured with, if applicable) _____, a substance(s) which harm(s) public health and environment by destroying ozone in the upper atmosphere.

*The Contractor shall insert the name of the substance(s).

PART III - LIST OF DOCUMENTS, EXHIBITS, AND OTHER ATTACHMENTS
SECTION J
LIST OF ATTACHMENTS

- J-1** Attachment (1) - Statement Of Work – 9 Pages, With Exhibit A - DD Form 1423, Contract Data Requirements List, 4 Pages.
 - J-2** Attachment (2) – List of Acronyms, 1 Page.
 - J-3** Attachment (3) - Personnel Qualifications, 7 Pages.
 - J-4** Attachment (4) - DD Form 254, Contract Security Classification Specification, Ser 041-03, Dated 20030703, 2 Pages.
 - J-5** Attachment (5) – Accounting and Appropriation Data, 1 page. *
- (* To be included at time of award)

PART IV - REPRESENTATIONS AND INSTRUCTIONS
SECTION - K
REPRESENTATIONS, CERTIFICATIONS
AND OTHER STATEMENTS OF OFFERORS OR RESPONDENTS

K-1 Representations, Certifications, and Other Statements of Offerors or Respondents

Each Offeror must submit a completed Representations, Certifications, and Other Statements Of Offerors or Respondents with its proposal which is available electronically in full text at <http://heron.nrl.navy.mil/contracts/rep&certs.htm>

Use Representations and Certifications: A

K-2 FILL IN FOR FAR 52.219-1 - SMALL BUSINESS PROGRAM REPRESENTATIONS (MAR 2001)

The fill in information is as follows:

The NAICS code for this acquisition is 541330.
The small business size standard is \$23M.

**SECTION L
INSTRUCTIONS CONDITIONS AND NOTICES
TO OFFERORS OR RESPONDENTS**

L-1 52.252-1 SOLICITATION PROVISIONS INCORPORATED BY REFERENCE (FEB 1998)

This solicitation incorporates one or more solicitation provisions by reference, with the same force and effect as if they were given in full text. Upon request, the Contracting Officer will make their full text available. The offeror is cautioned that the listed provisions may include blocks that must be completed by the offeror and submitted with its quotation or offer. In lieu of submitting the full text of those provisions, the offeror may identify the provision by paragraph identifier and provide the appropriate information with its quotation or offer. Also, the full text of a solicitation provision may be accessed electronically at this/these address(es):

<http://www.arnet.gov/far>

<http://heron.nrl.navy.mil/contracts/home.htm>

FAR CLAUSE TITLE

52.204-6	-	Data Universal Numbering System (DUNS) Number (OCT 2003)
52.204-7	-	Central Contractor Registration (OCT 2003)
52.214-34	-	Submission Of Offers In The English Language (APR 1991)
52.214-35	-	Submission Of Offers In U.S. Currency (APR 1991)
52.215-1	-	Instructions To Offerors- Competitive Acquisition (MAY 2001)
52.215-16	-	Facilities Capital Cost Of Money (JUN 2003)
52.222-24	-	Preaward On-Site Equal Opportunity Compliance Evaluation (FEB 1999)
52.237-10	-	Identification Of Uncompensated Overtime (OCT 1997)

DFAR CLAUSE TITLE

252.209-7001-	Disclosure Of Ownership Or Control By The Government Of A Terrorist Country (MAR 1998)
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L-2 INSTRUCTIONS FOR SUBMISSION OF PROPOSALS/OFFERS

All proposals shall be submitted in accordance with FAR 52.215-1- *Instructions to Offerors- Competitive Acquisition*. Proposals/offers submitted in paper media through the United States Postal Service (USPS) or delivery services shall be addressed to:

Contracting Officer, ATTN: Code 3220.CR
Naval Research Laboratory (NRL)
4555 Overlook Avenue, S.W.
Washington, D.C. 20375
Solicitation/RFP No. – N00173-03-R-CR12
Closing Date: 13 Jan 04 Time: 4PM Local Time

Proposals may be hand delivered to the Contracting Office, NRL, 4555 Overlook Avenue, S.W., Washington, D.C. 20375, Building 222, Room 115 between the hours of 8AM until 4PM, local time, excluding weekends and federal holidays. NRL is a controlled-access facility. Photo identification will be required. Report first to Building 72, Visitor Control for access to NRL. After receiving a Visitor

Pass, proceed directly to Building 222, Room 115, Contracting Office Receptionist to deliver the proposal. All offerors shall allow sufficient time for delivery of their proposal to the Contracting Office prior to the closing date and time announced in the solicitation. Directions and additional information about NRL is available at <http://www.nrl.navy.mil/aboutdc.htm>
If facsimile proposals are authorized, contracting officers may request offeror(s) to provide the complete; original signed proposal at a later date.

L-3 FAR 52.211-14 - NOTICE OF PRIORITY RATING FOR NATIONAL DEFENSE USE (SEP 1990)

Any contract awarded as a result of this solicitation will be a ☐ DX rated order; ☒ DO rated order certified for national use under the Defense Priorities and Allocations system (DPAS) (15 CFR 700), and the Contractor will be required to follow all of the requirements of this regulation.

L-4 FAR 52.215-20 REQUIREMENTS FOR COST OR PRICING DATA OR INFORMATION OTHER THAN COST OR PRICING DATA (OCT 1997) ALTERNATE IV (OCT 1997)

(a) Submission of cost or pricing data is not required.

(b) Provide information described in Section L-2, Instructions for Submission and Information Required to Evaluate Proposals.

L-5 FAR 52.216-1 - TYPE OF CONTRACT (APR 1984)

The Government contemplates award of a Cost Plus Fixed Fee Term contract resulting from this solicitation.

L-6 FAR 52.233-2 - SERVICE OF PROTEST (AUG 1996)

(a) Protests, as defined in Section 33.101 of the Federal Acquisition Regulation, that are filed directly with an agency, and copies of any protests that are filed with the General Accounting Office (GAO) shall be served on the Contracting Officer (addressed as follows) by obtaining written and dated acknowledgment of receipt from the Control Desk, Code 3200, Bldg. 222, Rm. 115, Naval Research Laboratory, 4555 Overlook Ave., S.W., Washington DC 20375-5326.

(b) The copy of any protest shall be received in the office designated above within one day of filing a protest with the GAO.

L-7 DFARS 252.227-7017 - IDENTIFICATION AND ASSERTION OF USE, RELEASE, OR DISCLOSURE RESTRICTIONS (JUN 1995)

(a) The terms used in this provision are defined in following clause or clauses contained in this solicitation—

(1) If a successful offeror will be required to deliver technical data, the Rights in Technical

Data--Noncommercial Items clause, or, if this solicitation contemplates a contract under the Small Business Innovative Research Program, the Rights in Noncommercial Technical Data and Computer Software--Small Business Innovative Research (SBIR) Program clause.

- (2) If a successful offeror will not be required to deliver technical data, the Rights in Noncommercial Computer Software and Noncommercial Computer Software Documentation clause, or, if this solicitation contemplates a contract under the Small Business Innovative Research Program, the Rights in Noncommercial Technical Data and Computer Software--Small Business Innovative Research (SBIR) Program clause.
- (b) The identification and assertion requirements in this provision apply only to technical data, including computer software documents, or computer software to be delivered with other than unlimited rights. For contracts to be awarded under the Small Business Innovative Research Program, the notification requirements do not apply to technical data or computer software that will be generated under the resulting contract. Notification and identification is not required for restrictions based solely on copyright.
- (c) Offers submitted in response to this solicitation shall identify, to the extent known at the time an offer is submitted to the Government, the technical data or computer software that the Offeror, its subcontractors or suppliers, or potential subcontractors or suppliers, assert should be furnished to the Government with restrictions on use, release, or disclosure.
- (d) The Offeror's assertions, including the assertions of its subcontractors or suppliers or potential subcontractors or suppliers shall be submitted as an attachment to its offer in the following format, dated and signed by an official authorized to contractually obligate the Offeror:

Identification and Assertion of Restrictions on the Government's Use, Release, or Disclosure of Technical Data or Computer Software.

The Offeror asserts for itself, or the persons identified below, that the Government's rights to use, release, or disclose the following technical data or computer software should be restricted:

Technical Data Computer Software to be Furnished With Restrictions*	Basis for Assertion **	Asserted Rights Category ***	Name of Person Asserting Restrictions****
(List)*****	(List)	(List)	(List)

* For technical data (other than computer software documentation) pertaining to items, components, or processes developed at private expense, identify both the deliverable technical data and each such item, component, or process. For computer software or computer software documentation identify the software or documentation.

** Generally, development at private expense, either exclusively or partially, is the only basis for asserting restrictions. For technical data, other than computer software documentation, development refers to development of the item, component, or process to which the data pertain. The Government's rights in computer software documentation generally may not be restricted. For computer software, development refers to the software. Indicate whether development was accomplished exclusively or partially at private expense. If development was not accomplished at private expense, or for computer software documentation, enter the specific basis for asserting restrictions.

- *** Enter asserted rights category (e.g., government purpose license rights from a prior contract, rights in SBIR data generated under another contract, limited, restricted, or government purpose rights under this or a prior contract, or specially negotiated licenses).
- **** Corporation, individual, or other person, as appropriate.
- ***** Enter "none" when all data or software will be submitted without restrictions.

Date _____
Printed Name and Title _____
Signature _____

(End of identification and assertion)

- (e) An offeror's failure to submit, complete, or sign the notification and identification required by paragraph (d) of this provision with its offer may render the offer ineligible for award.
- (f) If the Offeror is awarded a contract, the assertions identified in paragraph (d) of this provision shall be listed in an attachment to that contract. Upon request by the Contracting Officer, the Offeror shall provide sufficient information to enable the Contracting Officer to evaluate any listed assertion.

L-8 DFARS 252.227-7028 - TECHNICAL DATA OR COMPUTER SOFTWARE PREVIOUSLY DELIVERED TO THE GOVERNMENT (JUN 1995)

The Offeror shall attach to its offer an identification of all documents or other media incorporating technical data or computer software it intends to deliver under this contract with other than unlimited rights that are identical or substantially similar to documents or other media that the Offeror has produced for, delivered to, or is obligated to deliver to the Government under any contract or subcontract. The attachment shall identify - -

- (a) The contract number under which the data or software were produced;
- (b) The contract number under which, and the name and address of the organization to whom, the data or software were most recently delivered or will be delivered; and
- (c) Any limitations on the Government's rights to use or disclose the data or software, including, when applicable, identification of the earliest date the limitations expire.

L-9 GOVERNMENT-FURNISHED PROPERTY

No material, labor, or facilities will be furnished by the Government unless provided for in the solicitation.

L-10 INQUIRIES CONCERNING THE RFP

Any questions concerning the RFP must be submitted in writing to the Contracting Officer at the location noted in blocks 7 and 9 of the Standard Form 33, "Solicitation, Offer and Award," no less than fifteen (15) days before closing. The Government will not consider questions received after this date. Offerors are cautioned against directing any questions concerning this RFP to technical personnel at the Naval Research Laboratory.

L-11 PROPOSAL ORGANIZATION

(1) Information for the technical/management proposal shall be placed in Volume I and be completely separate from the business proposal (Volume II).

(2) Proposal Format and Length - No attempt is made to restrict the proposal format and style. However, the proposal should be written and organized so as to be compatible with the RFP, the Statement of Work, company's organization and accounting structure, and proposed cost estimate. Offerors are encouraged to use recycled paper and maximize the use of double sided copying when preparing responses to solicitations.

L-12 VOLUME I - TECHNICAL PROPOSAL

REQUIRED COPIES: 1 ORIGINAL AND 4 COPIES.

Offerors must propose in accordance with H-3 Level of Effort, Paragraph (k). If the Offeror uses a labor category other than that identified in Section H-3, the Offeror must provide a matrix clearly relating their proposed labor categories to those in Section H-3.

A. PERSONNEL QUALIFICATIONS

Provide resumes for all proposed personnel relevant to each labor category. The resume must reflect specific experience and qualifications of the proposed personnel relevant to the task(s) in the Statement of Work and previous experience including the degree to which they meet the requirements set forth in the Personnel Qualifications.

B. TECHNICAL UNDERSTANDING

The Offeror shall describe an understanding of the technical support requirements described in the Statement of Work. Offerors must include at a minimum, their approach to quality performance, ensuring technical excellence, proposed skills mix, use of subcontractors, use of facilities, and overall corporate capabilities to accomplish the requirements and to provide best value services. Concisely describe your plans for effective management and oversight of the resultant contract. Ensure that, at a minimum, the following areas are addressed: Ability to accomplish the full scope of technical requirements anticipated; approach to effective technical performance, including subcontracting; and ability to ensure consistent quality and availability of professional staff.

C. MANAGEMENT PLAN

The Offeror must provide a detailed management plan that will be followed during contract execution. The Offerors management plan must include the proposed lines of responsibility, authority, and communication through which tasks will be managed, and the procedures to be taken to insure quality control and cost control. The Offeror must define the proposed organizational structure (including responsibilities and reporting structure) for the project, how personnel will be assigned from task to task throughout the contractual period, and how the proposed project team will interface with both the Offerors corporate structure and the Government. The Offeror must provide evidence of

accomplished previous projects involving similar research in all task areas set forth in the SOW. The Offeror must identify relevant work performed on previous contracts by including contract number(s), Government agency/commercial entity, dollar amount(s), date(s) of performance, and the name(s) and telephone number(s) of Contracting Officer(s) and technical personnel.

L-13 VOLUME II - BUSINESS PROPOSAL

REQUIRED COPIES: 1 ORIGINAL AND 4 COPIES

(1) COST PROPOSAL

The offeror shall submit a business proposal that includes a cost proposal with supporting information for each cost element consistent with offeror's cost accounting system. The supporting breakdown should include such elements as materials, direct labor, indirect cost, and other costs such as travel. The offeror shall provide exhibits as necessary to substantiate each cost element. Should rates be used in the proposal, which are not DCAA approved, the offeror shall provide complete documentation and the rationale for their use at time of proposal submission. However, offerors are advised to use actual labor rates of proposed personnel as the basis for estimating labor costs when practicable.

L-14 MATERIAL ESTIMATE (FOR EVALUATION PURPOSES ONLY)

The material estimate and other direct costs set forth **MUST** be included in each offeror's cost proposal for evaluation purposes only. During the term of the contract, the contractor will be reimbursed actual and verifiable material and other direct associated expenses.

The Government estimates the material cost for this effort as \$500,000 per year for the basic award and \$500,000 per each option period, if exercised.

L-15 TRAVEL ESTIMATE (FOR EVALUATION PURPOSES ONLY)

The travel estimate and other direct costs set forth **MUST** be included in each offeror's cost proposal for evaluation purposes only. During the term of the contract, the contractor will be reimbursed actual and verifiable travel and other direct associated expenses in accordance with federal travel guidelines.

The Government estimates the travel cost for this effort as \$25,000 per year for the basic award and \$25,000 per each option period, if exercised.

L-16 MULTIPLE AWARDS

The Contracting Officer may make multiple awards resulting from this solicitation.

SECTION M
EVALUATION FACTORS FOR AWARD

M-1 EVALUATION

Award will be made to that offeror whose proposal is determined to be the best value to the Government, proposed cost and other factors considered. The Government reserves the right to make award to other than the low offeror. Although the technical factors are more important than the business factors, the closer the technical scores of the various proposals are to one another, the more important the business factors become.

M-2 EVALUATION FACTORS FOR AWARD

Proposals will be evaluated in accordance with the following factors that are listed in descending order of importance. The Management Plan sub-factor is of less importance than each of the Personnel Qualifications and Technical Understanding sub-factors, which are of equal importance.

M-2-1. TECHNICAL FACTORS

(1) PERSONNEL QUALIFICATIONS

The proposed personnel will be evaluated on the experience and qualifications of the proposed personnel relevant to the proposed task; the quantity and quality of the Offeror's corporate experience relevant to the proposed task; and the previous experience of the key personnel including the degree to which they meet the requirements set forth in the Personnel Qualifications.

(2) TECHNICAL UNDERSTANDING

Evaluation will be based on the demonstrated overall soundness, approach to quality and technical performance, allocation of resources, feasibility/ability to understand and successfully accomplish the technical requirements (task areas) in the Statement of Work.

(3) MANAGEMENT PLAN

Evaluation will be based on the extent of corporate experience in performing, accomplishing, defining responsibilities, managing tasks and accountability related specifically to tasks in the SOW.

M-2-2 BUSINESS FACTORS

(1) COST TO THE GOVERNMENT

Proposed estimated cost to the Government. The Government may adjust the proposed cost for purposes of evaluation based upon an evaluation of cost realism. Cost Realism means that the costs in an offeror's proposal are realistic for the work to be performed; reflect a clear understanding of the requirements; and are consistent with the various elements of the offeror's technical proposal. The cost realism evaluation includes an analysis of the adequacy of the

hours, labor mix, and other direct costs to perform the work as proposed in the technical proposal as well as the proposed labor and indirect rates. It also includes evaluation of the likelihood that the risks inherent in the offeror's technical approach will result in higher actual costs than anticipated.

M-3 FAR 52.217-5 - EVALUATION OF OPTIONS (JUL 1990)

Except when it is determined in accordance with FAR 17.206(b) not to be in the Government's best interests, the Government will evaluate offers for award purposes by adding the total price for all options to the total price for the basic requirement. Evaluation of options will not obligate the Government to exercise the option(s).

STATEMENT OF WORK

FOR

ELECTRONIC SUPPORT MEASURES (ESM)

ENGINEERING SERVICES

Naval Research Laboratory
4555 Overlook Ave., SW
Washington, DC 20375

1.0 INTRODUCTION

This Statement of Work (SOW) describes the engineering and technical support services to be provided to the Naval Research Laboratory's (NRL) Tactical Electronic Warfare Division (TEWD), which is located in Washington, D.C.

2.0 BACKGROUND

This SOW describes a variety of tasks to be performed in support of the mission of the Electronic Support Measures (ESM) Branch of the TEWD. The ESM Branch is tasked with performing research on Naval Electronic Warfare (EW) systems and the application of technologies to support the development and fielding of EW systems. Areas of specific interest include a broad spectrum of scientific research, engineering development, computer simulation, and direct technical liaison with Navy and Marine Corps EW experts. Services conducted under this SOW will concentrate on system research and development (R&D), software development (real-time DSP, real-time displays, and GUIs), RF engineering and fabrication, assembly, integration and testing of prototype EW systems. General design and development support (e.g., schematics, design documentation, and user and operator manuals) and program management support will also be required. The required services include a number of interrelated tasks that vary in both their technical dimensions and deliverable product. A high degree of inter-task coordination is a requirement of this SOW. The unique nature of this research requires access to NRL hardware and classified computing resources and databases dictating that a major portion of the labor tasks be performed on-site at the NRL.

3.0 SCOPE

The Contractor shall provide, on a level-of-effort basis, the person-hours of scientific, technical, research and development engineering support services to perform the tasks described within this SOW. These tasks include systems engineering (hardware and software), systems analysis (hardware and software), and data collection and analysis. The Contractor shall maintain a record of all internal data, documents, and computer programs and files that have been generated during execution of this SOW. The Contractor shall provide research and engineering services in support of seven basic task areas as directed by the NRL COR.

- Task I - Software Systems
- Task II - Digital Signal Processing (DSP)
- Task III - Graphical User Interface (GUI) Development
- Task IV - RF Engineering
- Task V - Fabrication, Assembly, Integration and Test
- Task VI - General Design and Development Support
- Task VII - Program Management

4.0 SOW TASKS

4.1 Task 1 – Software Systems

The current and projected emitter environment requires emphasis on advanced EW support systems that can simultaneously detect and process a large number of emitters. Areas of new software development and investigation include DSP; custom software development, integration and test; data collection using this software; advanced algorithm development; automatic analysis techniques; and software engineering for real-time process control, interfacing, and algorithm integration. The contractor shall provide support for GUIs that are required to display data collected and analyzed by the system with operator control via this interface.

4.1.1 Task 1-A – Software Development

The contractor shall design, develop, and manage software systems used to collect, distribute, analyze, and record emitter data. Requirements for the software being developed are based on the current fielded versions of the system. Additional requirements are constantly being added because of newly developed and modified emitter sources. The Contractor shall implement near real-time specific emitter identification and deliver the results to a GUI.

The contractor shall provide support for the development of near real-time Fast Fourier Transform (FFT) algorithms using high-speed analog-to-digital converter (ADC) boards with multiple DSP boards. The Contractor shall rapidly prototype and develop algorithms to provide various processing and control functions as part of the software development task. Initial algorithm development may be accomplished using test code developed on a desktop workstation or on any of several commercially available mathematical packages like MatLab or Microsoft Excel. The Contractor shall perform all tasks from initial algorithm development through prototyping and final implementation. The development of the advanced algorithms requires the Contractor to meet frequently with other developmental team members and the NRL engineering staff. The Contractor shall develop algorithms based on these meetings, subject to approval by the COR.

The Contractor shall use widely available modern programming languages (e.g., C and C++) to develop near real-time applications to run under commercial real time operating systems (RTOS), primarily M/COS and Wind River VxWorks. The Contractor shall develop custom interfaces and, when required, make modifications and/or additions to the RTOS source. This software development requires extensive knowledge of the selected RTOS and the design and test tools available from these vendors. Various low-level components including device drivers and Interrupt Services Routines may be required to support specialized hardware.

The Contractor shall use the Tornado-II integrated development environment (IDE) for coding, building, testing and measuring signal processing applications hosted on the runtime component of VxWorks RTOS. The Contractor shall use the Scientific Algorithms Library (SAL) and the RACE+++ Trace and Analysis Library (TATL) that are available from Mercury Computer Systems to aid in the development of real-time multi-processor applications.

The Contractor shall fully document all developed software in the source code and associated design manuals.

4.1.2 Task 1-B – Software Testing

The Contractor shall conduct software testing at both a system and subsystem level to verify requirements. The Contractor shall document the testing to show the requirement, the module(s) that satisfies the requirement, and the test engineer conducting the test.

The contractor shall provide field testing of all prototype digital electronic support systems. The field tests often lead to the development of new requirements and adjustments to algorithms. The Contractor shall travel to offsite locations with the NRL developers to perform field testing and modification, if required. The Contractor shall place the results of the field testing under configuration control and present any errors occurring during field testing to the software development team for resolution.

The Contractor shall develop automated tests that can be used to test a delivered baseline of the system. These automated tests shall be stored with the software baseline and shall be capable of being modified if necessary. The automated tests shall produce a test report that identifies any errors and documents the satisfaction of all requirements.

4.1.3 Task 1-C – Configuration Management System

The Contractor shall use an automated configuration management system (CMS) for the configuration control of all software design, development, test and integration efforts. All design concepts, source code, documentation and test results shall be included in the CMS. All developed software shall be initially baselined using the CMS and any upgrades, maintenance patches and test repairs shall be released at an agreed upon timeline determined by the NRL engineering staff. The ability to extract any baseline from the CMS is also required. Patches to developed software systems will be allowed and shall be documented and installed using the same procedures as a new baseline. All embedded DSP software shall be configuration controlled using the same CMS methods as the application baselines.

4.2 Task 2 – Digital Signal Processing

DSP is concerned with the practical aspects of representing information bearing signals in digital form and with using computers or special purpose digital hardware to extract that information or to transform the signals in useful ways. DSP applications are ever changing and commercial-off-the-shelf (COTS) products that have proven performance will be used to satisfy this requirement when applicable and within budgetary constraints.

4.2.1 Task 2-A – Digital Signal Processing Hardware

The Contractor shall integrate high-speed ADC boards with multiple quad PowerPC G4 Processor boards. Data from these boards must then be transformed into useful data using FFT algorithms. This data will be used by the software application to implement signal detection algorithms. The Contractor shall implement high throughput data transfers across numerous bus technologies including RACEway, PCI, VME, and other serial or optical devices. COTS dedicated DSP chips and their associated support circuitry may be used with COR concurrence. The fastest and most demanding problems shall require the Contractor to implement a Field Programmable Gate Array (FPGA) solution using complex FFTs and other signal transformation algorithms.

4.3 Task 3 – GUI Development

Efforts conducted under this SOW require several GUIs to support differing mission requirements. The exact requirements for the GUIs are developed by the NRL engineering staff based on interviews conducted with the operators/users. It is important that the GUIs not be tied to only one operating system, user environment, or development tool. The GUIs must maintain the quality of platform independence through a portable open source software development model. Because there are many different modes of deployment for these systems the GUIs may be required to run on different computer platforms varying from embedded single board computers to desktop workstations or notebook computers. There will be portions of the system distributed over a Local Area Network requiring the GUI to implement TCP/IP or other network protocol interfaces. There may be system hardware components that require other command and status interfaces with the GUI over RS-232/422 serial ports. The contractor shall provide operator control support to override any automated procedures. Critical operator actions and system responses will be recorded and archived for a time period determined by the COR.

4.3.1 Task 3-A – GUI Development and Interface

The Contractor shall establish and maintain a structured GUI software development process that provides a user-friendly environment with automated operations where applicable. The Contractor shall employ human-interface design methodologies in the design process to ensure that the GUIs are well laid out, flexible and reliable for use under difficult and possibly understaffed mission environments. The Contractor shall provide support to integrate third party mathematics packages such as the "Fastest Fourier Transform in the West" (FFTW) library, as required by the application. The Contractor shall implement multithreading for those applications where the processing and accuracy requirements for the GUI are very demanding, and which need fast user response.

4.3.2 Task 3-B – User Training

The Contractor shall provide sufficient training and system support to the end users of the GUI to ensure their complete success and proficiency in its use.

4.4 Task 4 – RF Engineering

4.4.1 Task 4-A – RF Design

The Contractor shall provide Radio Frequency (RF) engineering and technical support for design, development, and repair of unique components and subsystems supporting R&D projects and prototype system developments. The Contractor shall provide hardware design and debug services, including embedded processor design, to support communications, electronic warfare, and radar processing applications. Based on a given set of requirements, the Contractor shall design, build, and integrate the digital, analog, and RF hardware and software required to fulfill the requirements. This involves a variety of tasks, including system architectural design; hardware and software development; printed wiring board (PWB) design, layout, fabrication, procurement, assembly, and testing; system level integration; and testing. Detailed digital designs shall use FPGAs and DSPs, and shall include the supporting analog and RF circuitry required to perform signal reception, amplification, conditioning, filtering, and down-conversion to baseband, and Analog-to-Digital (A/D) samplings.

4.5 Task 5 – Fabrication, Assembly, Integration and Test

The Contractor shall develop, integrate, and test hardware for prototype systems. The hardware shall include structural components, mechanisms, electro-mechanical devices, electronic and avionics components, ground support equipment, and other devices supporting TEWD activities. The Contractor shall design, procure, test, and integrate electronic and avionics systems for data acquisition, processing, and analysis; command and telemetry functions; low-noise signal conditioning and sensor interfaces; power conversion; and temperature control.

4.5.1 Task 5-A – Fabrication and Assembly

The Contractor shall provide support for the fabrication and assembly of hardware for prototype systems and subsystems, including the fabrication of unique piece parts, fixtures, and assemblies for use during assembly, integration, and test. The Contractor shall provide support for the acquisition of specialized material, hardware, and components (e.g., raw materials, electrical, electronic, and electromechanical parts, machined parts, weldments, racks and structures, test equipment, and special processes). The Contractor shall interface with vendors for the production and delivery of hardware, components and equipment. The Contractor shall maintain piece part inventories and will track and monitor the traveler process on selected efforts, as directed by COR.

4.5.2 Task 5-B – Integration and Test

The Contractor shall provide engineering services support to test and integrate systems and subsystems with the target platform. The Contractor shall provide support to the Government engineering staff to establish requirements for environmental test of specific systems and subsystems to include mechanical and electrical experimental and functional testing, along with corrective actions where necessary. The Contractor shall develop test plans and procedures for the integration and test of systems and subsystems into an operational platform at NRL or other NRL-designated facilities. The Contractor shall design, fabricate, assemble, test, calibrate, and maintain specialized laboratory equipment, instrumentation, GSE, and facilities to support the integration and test activity. The Contractor shall provide support to the Government in performing system level environmental and functional testing, along with corrective actions where necessary. The Contractor shall provide scientific expertise, engineering test support, and supplies for scientists and engineers performing special system calibrations and reducing the resultant test data sets.

4.6 Task 6 – General Design and Development Support

4.6.1 Task 6-A – Design, Fabrication, and Assembly

The Contractor shall design, develop, fabricate, and test demonstration systems and components. The Contractor shall develop critical components for a variety of ESM and related system architectures. The Contractor shall design, develop, and test components and sub-assemblies necessary for the fabrication of designated systems. A high level of NRL involvement can be expected from the concept stage through design to fabrication. NRL will provide general guidance as to the components to be developed. The Contractor shall provide a development plan for the component development. The development plan shall consist of cost, schedule, and risk analysis elements. The execution of development plan is subject to COR approval.

4.6.2 Task 6-B – Design and Procurement

The Contractor shall provide technical and engineering support for NRL facilities and experiments. The Contractor shall design, fabricate or acquire, and deliver to NRL incidental hardware required for the operation of and research within the NRL facilities. The Contractor shall modify, repair or maintain existing equipment in support of on-going research efforts; and document performance of systems or subsystems. The Contractor shall provide experiment support, design, fabrication, maintenance, and repair of system or subsystems.

4.6.3 Task 6-C – Support of On-Site and Field Experiments

The Contractor shall provide support, to include procurement of supplies and equipment, fabrication, integration, test and calibration, as well as hardware, software, and diagnostics for efforts at both on-site and for fielded experiments at off-site locations. The Contractor, in support of the requirements herein, shall install and operate diagnostic equipment, acquire raw data, process the data, as well as analyze and archive collected data. Upon completion of this analysis, the Contractor shall provide the data acquired, including all disks, tapes, films, etc., and submit a written report of the results.

4.7 Task 7 – Program Management

All assignments under Task 7 shall support an assignment under Tasks 1 through 6.

4.7.1 Task 7-A – Management and Administrative Support

The Contractor shall provide management support. The Contractor shall provide administrative support to the technical and programmatic work set forth herein in areas such as word processing, scheduling, library maintenance, document preparation, periodic progress reports, presentations, and briefings.

4.7.2 Task 7-B – Program Coordination and Technical Documentation Support

The Contractor shall provide coordination, planning, communication and execution of key program events that include: System Requirements Review (SRR), Preliminary Design Review (PDR), Critical Design Review (CDR), Technical Interface Meetings (TIM), and related programmatic reviews. The Contractor shall provide a direct interface to collect and organize inputs for documentation, graphics, and web design personnel tasked with supporting the development, collection, coordination, and communication of technical documentation. The Contractor shall provide technical and status (progress) reports that establish event status and that demonstrate the progress to date. The Contractor shall reproduce and distribute technical reports, engineering drawings, and provide for the coordination, production, and delivery of review material. The Contractor shall perform technical writing and editing tasks for the design, development, and specification of system and subsystem hardware and software. The Contractor shall review and edit documents, manuals, reports, and other documentation for accuracy, literacy, and technical content. The Contractor shall deliver the documentation in both hard copy and on electronic media. The Contractor shall interface with NRL personnel to update and incorporate changes to pre/post-release documents and subsequent posting to designated websites.

4.7.3 Task 7-C – Graphics and Drafting Services

The Contractor shall provide support for the creation of illustrations, drawings, and other graphic material required by various programs, studies, proposals, or technical presentations. The Contractor shall provide artistic capabilities and the computer resources to render illustrations, drawings, schematics, block diagrams, flow charts, and text files. The Contractor will scan and edit mechanical and electrical drawings produced using designated computer aided drafting (CAD) systems. The Contractor shall leverage existing drawings and illustrations from previous NRL developments and shall administer files on a variety of file servers. The Contractor shall coordinate graphic requirements associated with program review cycles. The Contractor shall possess requisite hardware, software and peripheral devices necessary to fulfill task requirements for all work efforts performed off-site from the NRL.

4.7.4 Task 7-D – Special Studies and Reports

The Contractor shall compose technical summaries and reports of surveys, investigations, or fact-finding efforts for tasks performed under this SOW. The Contractor shall describe documents or information reviewed or referenced; organizations contacted; efforts undertaken; key progress and accomplishments, problems, or findings; and appropriate recommendations, conclusions, and action items taken. The Contractor shall conduct research into new and emerging technologies and shall produce reports documenting their features and applicability to ongoing NRL programs. The Contractor shall participate in the development and production of proposals for new programs of opportunity that may include special study or research programs.

4.7.5 Task 7-E – Computer and Internet Support

The Contractor shall provide systems support for UNIX, DOS, NT, Windows 2000, Linux, and Macintosh workstations supporting the design, development, and testing process. The Contractor shall provide hardware and software maintenance for selected computational systems and shall recommend, acquire, and implement hardware and software solutions, along with additions and upgrades to meet performance and capability needs. The Contractor shall support Internet, Intranet, and Extranet technology application using the NRL Integrated Communications Environment Network (NICEnet), and other TEWD local area network and wide area network (LAN/WAN) capabilities. The Contractor shall provide support to NRL user groups in the form of computer system configuration and management, E-mail and Internet connectivity and configuration, and user assistance. The Contractor shall configure computer hardware and software resources for multimedia briefing presentations. The Contractor shall maintain system component accountability, manage accounts, and manage scheduled maintenance and maintenance agreements.

4.7.6 Task 7-F – Web Page Design and Maintenance

The Contractor shall be responsible for the development, implementation, and maintenance of a variety of web services hosted on NRL computers. The Contractor shall provide web services both on a project-specific basis and to communicate information on a broader scale to COR-designated parties or to the general public. These web services shall include: (i) Maintenance of existing web sites and databases, including the design, testing, and implementation of enhancements, adding new modules, and fixing bugs in a short timeframe; and (ii) designing and testing new web sites and databases to support specific program needs. All designs shall be tested and optimized for different browser conditions and operating environments. When tasked,

the Contractor shall assess the "functionality" of existing websites to determine needed improvements and upgrades. The Contractor shall ensure that all web work is in compliance with NRL, Department of Defense, and Government-wide web policies and requirements. The Contractor shall provide for the manipulation of media for posting to the websites and shall display program documentation, review packages, address listings, program schedules, and other information in a user-friendly manner. The Contractor shall be responsible for the design, configuration, implementation, and maintenance of necessary file serving methodologies (both hardware and software), data transfer and communication lines, and networking connectivity between the contractor's facility, the NRL, and other COR approved locations.

4.7.7 Task 7-G - Contract Management and Data Reporting

The Contractor shall perform administrative, technical, and financial management functions during the course of this effort and shall maintain a status of its effort towards achieving the SOW objectives, including all technical activities and efforts, problems/deficiencies, impacts, recommended solutions, pertinent test and simulation data, etc. The contractor shall provide data in accordance with the Contract Data Requirements List (CDRL), DD 1423, Exhibit A to Attachment (1).

(1 Data Item)

The public reporting burden for this collection of information is estimated to average 110 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports (0701-0188), 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302. Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number. Please DO NOT RETURN your form to the above address. Send completed form to the Government issuing

**18. ESTIMATED
TOTAL PRICE**

CONTRACT DATA REQUIREMENTS LIST

(2 Data Items)

Form Approved
OMB No. 0704-0188

The public reporting burden for this collection of information is estimated to average 110 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports (0701-0188), 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302. Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number. Please DO NOT RETURN your form to the above address. Send completed form to the Government issuing

A. CONTRACT LINE ITEM NO.	B. EXHIBIT	C. CATEGORY:
0002	A	TDP _____ TM- _____ OTHER _____ X

D. SYSTEM / ITEM	E. CONTRACT / PR NO.	F. CONTRACTOR
0001	57-2188-03	

1. DATA ITEM NO.	2. TITLE OF DATA ITEM	3. SUBTITLE
A002	Monthly Financial and Technical Status Report	

4. AUTHORITY (Data Acquisition Document No.)	5. CONTRACT REFERENCE	6. REQUIRING OFFICE
N/A	SOW (entire)	NRL Code 5722

7. DD 280 REQ	9. DIST STATEMENT REQUIRED	10. FREQUENCY	12. DATE OF FIRST SUBMISSION	14. DISTRIBUTION
LT		MTHLY	45 DAC	
8. APP CODE		11. AS OF DATE	13. DATE OF SUBSEQUENT SUBMISSION	a. ADDRESSEE
N/A	N/A			

15. REMARKS	15. TOTAL
The contractor shall deliver the report by the 15th calendar day of each month for the preceding month in both electronically and hard copy. The report shall identify the number of hours and the fully burdened labor, including fee, for each employee and/or subcontractor. The current period and total accrued cost shall be provided. Expenses (e.g., travel, other direct costs, materials, and subcontracts) shall be separately reported with full burdens including fee. If an employee and/or subcontractor worked on more than one task (as defined by the COR), then the accounting for each task must be shown separately. The report must include status of all work in progress and work completed, including procurements. The report must include plans for the next month and any potential problems or areas of concern. The COR will identify the format for the report.	1

1. DATA ITEM NO.	2. TITLE OF DATA ITEM	3. SUBTITLE
A003	Technical Data and Briefing Packages	

4. AUTHORITY (Data Acquisition Document No.)	5. CONTRACT REFERENCE	6. REQUIRING OFFICE
N/A	SOW (entire)	NRL Code 5722

7. DD 280 REQ	9. DIST STATEMENT REQUIRED	10. FREQUENCY	12. DATE OF FIRST SUBMISSION	14. DISTRIBUTION
LT		ASREQ	*	
8. APP CODE		11. AS OF DATE	13. DATE OF SUBSEQUENT SUBMISSION	a. ADDRESSEE
N/A	N/A			

15. REMARKS	15. TOTAL
The contractor shall provide a report identifying programmatic and technical presentations and briefings, including technical and design packages that support the program review milestone activities.	2
The contractor shall provide technical summaries, survey and investigative reports for all all tasks.	
* The COR will provide contractor with dates of submission and format.	

G. PREPARED BY	H. DATE	I. APPROVED BY	J. DATE
NRL Code 5722	7/30/03		

17. PRICE GROUP
18. ESTIMATED TOTAL PRICE

17. PRICE GROUP
18. ESTIMATED TOTAL PRICE

CONTRACT DATA REQUIREMENTS LIST

(2 Data Items)

Form Approved
OMB No. 0704-0188

The public reporting burden for this collection of information is estimated to average 110 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports (0704-0188), 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302. Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number. Please DO NOT RETURN your form to the above address. Send completed form to the Government issuing

A. CONTRACT LINE ITEM NO. 0002 B. EXHIBIT A C. CATEGORY: TDP _____ TM- _____ OTHER _____ X

D. SYSTEM / ITEM 0001 E. CONTRACT / PR NO. 57-2188-03 F. CONTRACTOR

1. DATA ITEM NO. A004 2. TITLE OF DATA ITEM Scientific, Technical, Data, Diagnostic Reports 3. SUBTITLE

4. AUTHORITY (Data Acquisition Document No.) N/A 5. CONTRACT REFERENCE SOW (entire) 6. REQUIRING OFFICE NRL Code 5722

7. DD 250 REQ LT 8. DIST STATEMENT REQUIRED 9. FREQUENCY ASREQ 10. DATE OF FIRST SUBMISSION * 11. AS OF DATE 12. DATE OF SUBSEQUENT SUBMISSION 13. DISTRIBUTION a. ADDRESSEE b. COPIES Draft Reg Repro

14. COR 15. TOTAL 1

1. DATA ITEM NO. A005 2. TITLE OF DATA ITEM Final Technical Reports 3. SUBTITLE

4. AUTHORITY (Data Acquisition Document No.) N/A 5. CONTRACT REFERENCE SOW (entire) 6. REQUIRING OFFICE NRL Code 5722

7. DD 250 REQ LT 8. DIST STATEMENT REQUIRED 9. FREQUENCY 1TIME 10. DATE OF FIRST SUBMISSION EOC 11. AS OF DATE 12. DATE OF SUBSEQUENT SUBMISSION 13. DISTRIBUTION a. ADDRESSEE b. COPIES Draft Reg Repro

14. COR DTIC 15. TOTAL 2

G. PREPARED BY NRL Code 5722 H. DATE 7/30/03 I. APPROVED BY J. DATE

17. PRICE GROUP
18. ESTIMATED TOTAL PRICE

17. PRICE GROUP
18. ESTIMATED TOTAL PRICE

LIST OF ACRONYMS	
A/D	Analog-to-Digital
ADC	Analog to Digital Converter
CMS	Configuration Management System
COTS	Commercial Off the Shelf
CW	Continuous Wave
DAC	Digital to Analog Converter
DFT	Discrete Fourier Transform
DSP	Digital Signal Processing
ESM	Electronic Support Measures
EW	Electronic Warfare
FFT	Fast Fourier Transform
FFTW	Fastest Fourier Transform in the West
FOX	Free Objects for X
FPGA	Field Programmable Gate Array
G4	Fourth Generation
GFE	Government Furnished Equipment
GUI	Graphical User Interface
HTTP	Hypertext Transport Protocol
IDE	Integrated Development Environment
IP	Intellectual Property or Internet Protocol
ISR	Interrupt Service Routine
LAN	Local Area Network
M/COS	Mercury Computer Operating System
MHz	Mega Hertz
NICEnet	NRL Integrated Communications Environment Network
NRL	Naval Research Laboratory
PCI	Peripheral Component Interconnect
PPC	Power PC (Personal Computer)
PRI	Pulse Repetition Interval
PW	Pulse Width
PWB	Printed Wiring Board
RF	Radio Frequency
RT	Real Time
RTOS	Real-Time Operating System
SAL	Scientific Algorithms Library
SOW	Statement of Work
TCP/IP	Transaction Control Protocol/Internet Protocol
TEWD	Tactical Electronic Warfare Division
UDP	User Datagram Protocol
VHDL	VHSIC High level Design Language
VHSIC	Very High Speed Integrated Circuit
VME	VersaModule Eurocard Bus
WAN	Wide Area Network

MINIMUM PERSONNEL QUALIFICATIONS**1.0 INTRODUCTION**

The Naval Research Laboratory (NRL) has established a representative matrix of the labor categories and skills to which the contractor shall propose. Resumes shall use the same labor category headings to relate the experience of the candidates to the minimum standards set forth below. If the contractor uses a labor category terminology other than that used in this provision, the contractor must provide a matrix clearly relating their proposed labor categories to those in the provision.

2.0 PERSONNEL REQUIREMENTS

The proposed personnel shall be available for work efforts on the first day after contract award. Personnel designated as key personnel must possess or be capable of obtaining a security clearance at the time of contract award in accordance with the Security Classification Form (DD254), Attachment (4).

3.0 PERSONNEL QUALIFICATIONS**3.1 Senior Program Manager (Key Personnel)**

Must have a B.Sc. degree in Engineering, Finance, Business, or Operations Research from an accredited college or university and at least ten (10) years of the experience below directly related to the statement of work.

OR

At least ten (10) years of the experience below directly related to the statement of work.

EXPERIENCE

Experience shall include managing complex technical efforts, liaison with executive and technical personnel within the research and development community, as well a project and contract management and demonstrated experience with the DoD acquisition process. The candidate shall have direct experience in the planning, direction, and control of scientific and advanced technology development programs. Specific experience with the programmatic and technical program planning is required to support the developmental process including: budgets and schedules, risk analysis, engineering specialty integration, program reviews, technical performance measurement, interface control, and program planning. Candidate must have good written and oral communications skills as evidenced by publications and presentations at conferences.

This candidate will be the single point-of-contact Program Manager (PM) for SOW technical and procedural matters. The PM shall be cognizant of SOW technical elements and shall be responsible for the management of tasks conducted under this SOW. The PM shall interface with the COR, and as necessary, other Government representatives and contractors. The PM shall oversee the efforts of on-site Contractor personnel and shall ensure that tasks are performed according to SOW requirements. The PM shall be responsible to ensure the performance of any ad hoc design studies and efforts that may be required to augment or supplement the tasks defined herein. The PM shall ensure that required documents and deliverables are properly prepared and delivered.

3.2 Computer Scientist (Key Personnel)

Must have a M.Sc. degree in Electrical Engineering, Computer Science, Mathematics, or Physics from an accredited college or university with at least eight (8) years of experience related to complex computer applications. Must have experience with real-time process control, digital signal processing, and DSP algorithm design and development in an electronic warfare environment. Must have experience with field support activity for collection by currently deployed or prototype collection/detection systems; overall software design, development, integration and test of advanced EW systems and user interfaces; demonstrated ability to communicate with leading scientists in all areas of EW software design and digital signal processing. This position requires an individual with recent team management and programming experience on EW software projects using the VxWorks and MS-Windows environment with the C, C++, and assembly languages.

3.3 Sr. Software Engineer (Key Personnel)

Must have a B.Sc. degree in Electrical Engineering, Computer Science, Mathematics, or Physics from an accredited college or university with at least eight (8) years of experience related to complex computer applications, including experience in the development and implementation of real-time data collection and/or process control systems; advanced data analysis software development, implementation and unit testing; development and implementation of graphical user interfaces using the MS-Windows environment. Demonstrated knowledge of electronic warfare and multifunctional radio frequency systems. Ability to develop applications on VxWorks and MS-Windows platforms. An in-depth knowledge of the C, C++ and Java languages is required along with a working knowledge of assembly language and driver development on VxWorks and MS-Windows platforms.

3.4 Software Engineer

Must have a B.Sc. degree in Electrical Engineering or Computer Science from an accredited college or university. The candidate must have theoretical training (documented courses) in digital signal processing and RF concepts and operations. The ability to work in the VxWorks and MS-Windows environment is highly desired. Formal training in C, C++, and Java along with a demonstrated ability to program a user interface is also highly desired.

3.5 Systems Engineer (Key Personnel)

Must have a M.Sc. degree in Electrical Engineering, Computer Science, Mathematics, or Physics from an accredited college or university with at least eight (8) years of experience related to complex computer applications. Must have experience with real-time process control, DSP, and DSP algorithm design and development in an electronic warfare environment. Must have experience in the design, development, implementation, test, and revision of advanced real-time data collection software. The individual must have proven experience in collecting customer requirements, developing a plan to satisfy those requirements, and designing the final system or component. This position requires an individual with recent system engineering and programming experience on complex software projects using the VxWorks and MS-Windows environment with the C, C++, and assembly languages.

3.6 Sr. RF Engineer

Must have a M.Sc. degree in Electrical Engineering, Computer Science, Mathematics, or Physics from an accredited college or university. Must have at least eight (8) years experience in microwave circuit design and receiver technology development. Must have experience with specialization in RF and microwave engineering. Must have demonstrated knowledge of the requirements, alternatives, workings, interrelationships and tradeoffs of RF and microwave systems and the leading-edge technologies related to these systems.

OR

Must have at least ten (10) years of experience with specialization in RF and microwave engineering. Of the ten years experience, a minimum of eight (8) years must be in microwave circuit design and receiver technology development. Must have demonstrated knowledge of the requirements, alternatives, workings, interrelationships and tradeoffs of RF and microwave systems and the leading-edge technologies relevant to these systems.

3.7 RF Engineer

Must have a B.Sc. degree in Electrical Engineering or Physics from an accredited college or university. Must have at least five (5) years of experience in digital, analog, and RF circuit design with at least two (2) of the 5 years in receiver technology development. The candidate shall have demonstrated knowledge of the requirements, alternatives, implementation, and trade-offs of components for software radios and the technologies relevant to these systems. The candidate shall have demonstrated knowledge and capability to design, implement, and test high-performance digital and analog UHF through microwave RF subsystems. The candidate shall have demonstrated knowledge of PWB board design, layout, fabrication, testing, system level integration, and testing. The candidate shall have demonstrated ability to work with leading-edge technologies, including FPGAs, DSPs, and related VHDL. The candidate shall have demonstrated knowledge of VME and PCI bus design. Experience with high level languages (i.e., C/C++) is highly desirable. Must have demonstrated ability to implement and debug RF assemblies, subassemblies, and circuitry.

OR

Must have at least ten (10) years of experience in digital, analog, and RF circuit design with at least two (2) of the 10 years in receiver technology development. The candidate shall have demonstrated knowledge of the requirements, alternatives, implementation, and trade-offs of components for software radios and the technologies relevant to these systems. The candidate shall have demonstrated knowledge and capability to design, implement, and test high-performance digital and analog UHF through microwave RF subsystems. The candidate shall have demonstrated knowledge of PWB board design, layout, fabrication, testing, system level integration, and testing. The candidate shall have demonstrated ability to work with leading-edge technologies, including FPGAs, DSPs, and related VHDL. The candidate shall have demonstrated knowledge of VME and PCI bus design. Experience with high level languages (i.e., C/C++) is highly desirable. Must have demonstrated ability to implement and debug RF assemblies, subassemblies, and circuitry.

3.8 Technician, General Design and Support

Must have Associates Degree in Engineering Technology from an accredited college or university with at least two (2) years of directly related experience supporting electro-mechanical design and assembly. Must have specific knowledge in the troubleshooting and repair of analog and digital components and microprocessor-based systems. Must have experience operating and maintaining electrical ground support equipment and environmental facilities used during test activities. Candidate must be able to perform fabrication and mechanical repair tasks using common tools and test equipment. Candidate must be able to support the fabrication, test, and integration tasks in the areas of electro-mechanical assembly, fabrication, GSE, and developmental testing. Must have knowledge and experience in interrogating and measuring data from sensors and related data acquisition equipment.

OR

Must have at least five (5) years of directly related experience supporting electro-mechanical design and assembly. Must have specific knowledge in the troubleshooting and repair of analog and digital components and microprocessor-based systems. Must have experience operating and maintaining electrical ground support equipment and environmental facilities used during test activities. Candidate must be able to perform fabrication and mechanical repair tasks using common tools and test equipment. Candidate must be able to support the fabrication, test, and integration tasks in the areas of electro-mechanical assembly, fabrication, GSE, and developmental testing. Must have knowledge and experience in interrogating and measuring data from sensors and related data acquisition equipment.

3.9 Project Coordinator

Must have Associates Degree from an accredited college or university with at least two (2) years of directly related experience with the coordination and execution of complex R&D projects, and studies. Must have specific experience in developing system and subsystem level schedules, project budgets, and developing program controls and procedures using Microsoft Project, Excel, and Filemaker Pro. Must have relevant experience in planning, coordinating, and tracking technical reviews and interface working groups. Must be capable of developing databases using Microsoft Excel and FileMaker Pro to support ad hoc action items and materials tracking activities. Must be proficient with PC word processing, spreadsheet, and database programs.

OR

Must have at least four (4) years of directly related experience with the coordination and execution of complex R&D projects, and studies. Must have specific experience in developing system and subsystem level schedules, project budgets, and developing program controls and procedures using Microsoft Project, Excel, and Filemaker Pro. Must have relevant experience in planning, coordinating, and tracking technical reviews and interface working groups. Must be capable of developing databases using Microsoft Excel and FileMaker Pro to support ad hoc action items and materials tracking activities. Must be proficient with PC word processing, spreadsheet, and database programs.

3.10 Senior Technical Writer/Editor

Must have B.A. or B.Sc. degree in Engineering, Software, Economics, English, from an accredited college or university with at least five (5) years of directly related experience coordinating and interfacing with engineering and technical personnel to prepare, edit, and proof technical specifications, plans, procedures, proposals, and documents related to electronic systems. Must have working knowledge of the requirements for hardware and software documentation using the appropriate military and commercial standards to meet a diverse set of program needs. Must have demonstrated capability to collect, compile, and track technical data and comments thereto, to include the documentation and tracking of CDRLs using automated tools. Must be proficient with PC word processing, spreadsheet, and database programs.

OR

Must have ten (10) years of directly related experience coordinating and interfacing with engineering and technical personnel to prepare, edit, and proof technical specifications, plans, procedures, proposals, and documents related to electronic systems. Must have working knowledge of the requirements for hardware and software documentation using the appropriate military and commercial standards to meet a diverse set of program needs. Must have demonstrated capability to collect, compile, and track technical data and comments thereto, to include the documentation and tracking of CDRLs using automated tools. Must be proficient with PC word processing, spreadsheet, and database programs.

3.11 Senior Designer, Graphics and Multimedia

Must have B.Sc. or B.A. degree in Graphics Arts from an accredited college or university with at least five years of directly related experience applying graphics concepts for presentation, multimedia layouts, paste-ups, panels, color selection, and page layout principles, theories, and concepts. Must have demonstrated capability to coordinate and interface with engineering and scientific personnel to develop, prepare, edit, and proof graphically oriented technical papers, briefings, and documents. Must have demonstrated capability to collect, compile, and track graphically related files, clip art, and support files using automated tools. Must be proficient with PC and Macintosh cross-platform graphics, word processing, spreadsheet, and database programs. Must have demonstrated capability with graphics programs (Adobe Illustrator and Photoshop), non-linear editing programs, and 3-D presentation programs.

OR

Must have at least ten (10) years of directly related experience applying graphics concepts for presentation, multimedia layouts, paste-ups, panels, color selection, and page layout principles, theories, and concepts. Must have demonstrated capability to coordinate and interface with engineering and scientific personnel to develop, prepare, edit, and proof graphically oriented technical papers, briefings, and documents. Must have demonstrated capability to collect, compile, and track graphically related files, clip art, and support files using automated tools. Must be proficient with PC and Macintosh cross-platform graphics, word processing, spreadsheet, and database programs. Must have demonstrated capability with graphics programs (Adobe Illustrator and Photoshop), non-linear editing programs, and 3-D presentation programs.

3.12 Component Engineer and Procurement Specialist

Must have B.Sc. degree in Electrical Engineering from an accredited college or university with at least five (5) years of directly related experience performing parts engineering, including parts list and component reviews, parts selection, developing screening and qualification procedures, and reviewing test data to determine component acceptability. Must have demonstrated capability to initiate and track material and component procurements including interfacing with vendor technical and procurement personnel. Must have demonstrated capability to provide parts selection, vendor identification, and parts procurement of electrical, electronic, and electro-mechanical items, as well as mechanical assemblies and components. Must have demonstrated capability to coordinate, prepare, edit, and proof technical specification, drawings, plans, procedures, and documents related to the specification and procurement of electronic, electrical, and electromechanical components, including a working knowledge of the requirements for component specification.

OR

Must have at least ten (10) years of directly related experience performing parts engineering, including parts list and component reviews, parts selection, developing screening and qualification procedures, and reviewing test data to determine component acceptability. Must have demonstrated capability to initiate and track material and component procurements including interfacing with vendor technical and procurement personnel. Must have demonstrated capability to provide parts selection, vendor identification, and parts procurement of electrical, electronic, and electro-mechanical items, as well as mechanical assemblies and components. Must have demonstrated capability to coordinate, prepare, edit, and proof technical specification, drawings, plans, procedures, and documents related to the specification and procurement of electronic, electrical, and electromechanical components, including a working knowledge of the requirements for component specification.

3.13 Senior Intranet Specialist (Key Personnel)

Must have B.A. or B.Sc. degree in Engineering, Computer Science, Graphic Design from an accredited college or university with at least five (5) years of directly related experience with web page authoring tools, coupled with a demonstrated capability to develop graphically oriented solutions to internal Intranet needs. Must have demonstrated capability to interface databases with browser applications, as well as a demonstrated capability to design, develop, program, and maintain dynamic web pages supporting a variety of links and types of content, including audio, animation, and text.

OR

Must have at least ten (10) years of directly related experience with web page authoring tools, coupled with a demonstrated capability to develop graphically oriented solutions to internal Intranet needs. Must have demonstrated capability to interface databases with browser applications, as well as a demonstrated capability to design, develop, program, and maintain dynamic web pages supporting a variety of links and types of content, including audio, animation, and text.

3.14 Senior Computer Networking Specialist (Key Personnel)

Must have B.A. or B.Sc. degree in Engineering, Computer Science, Management Information Systems (MIS) from an accredited college or university with at least five (5) years of directly related experience in the specification and setup of domains, servers, telecommunications networks, remote access systems, firewalls, mail servers, operating systems, computer system management, hardware and software installation and testing, and user support. Must have demonstrated capability to support UNIX, DOS, NT, Windows 2000, Linux, and Macintosh workstations.

OR

Must have at least ten (10) years of directly related experience in the specification and setup of domains, servers, telecommunications networks, remote access systems, firewalls, mail servers, operating systems, computer system management, hardware and software installation and testing, and user support. Must have demonstrated capability to support UNIX, DOS, NT, Windows 2000, Linux, and Macintosh workstations.

DEPARTMENT OF DEFENSE CONTRACT SECURITY CLASSIFICATION SPECIFICATION <i>(The requirements of the DoD Industrial Security Manual apply to all security aspects of this effort.)</i>				1. CLEARANCE AND SAFEGUARDING SER: 041-03 a. FACILITY CLEARANCE REQUIRED <div style="text-align: center;">SECRET</div> b. LEVEL OF SAFEGUARDING REQUIRED <div style="text-align: center;">SECRET</div>																																																																																					
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b. SUBCONTRACT NUMBER			b. REVISED (Supersedes all previous specs)	REVISION NO.	DATE (YYYYMMDD)																																																																																				
<input checked="" type="checkbox"/>	c. SOLICITATION OR OTHER NUMBER 57-2188-03	DUE DATE (YYYYMMDD)	c. FINAL (Complete Item 5 in all cases)		DATE (YYYYMMDD)																																																																																				
4. IS THIS A FOLLOW-ON CONTRACT? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO. If Yes, complete the following: Classified material received or generated under _____ (Preceding Contract Number) is transferred to this follow-on contract.																																																																																									
5. IS THIS A FINAL DD FORM 254? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO. If Yes, complete the following: In response to the contractor's request dated _____, retention of the classified material is authorized for the period of _____.																																																																																									
6. CONTRACTOR (Include Commercial and Government Entity (CAGE) Code)																																																																																									
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12. PUBLIC RELEASE. Any information (*classified or unclassified*) pertaining to this contract shall not be released for public dissemination except as provided by the Industrial Security Manual or unless it has been approved for public release by appropriate U.S. Government authority. Proposed public releases shall be submitted for approval prior to release ☐ Direct ☒ Through (*Specify*)

COMMANDING OFFICER, NAVAL RESEARCH LABORATORY, WASHINGTON, DC 20375-5320, CODE 5722

to the Directorate for Freedom of Information and Security Review, Office of the Assistant Secretary of Defense (Public Affairs)* for review.

*In the case of non-DoD User Agencies, requests for disclosure shall be submitted to that agency.

13. SECURITY GUIDANCE. The security classification guidance needed for this classified effort is identified below. If any difficulty is encountered in applying this guidance or if any other contributing factor indicates a need for changes in this guidance, the contractor is authorized and encouraged to provide recommended changes; to challenge the guidance or the classification assigned to any information or material furnished or generated under this contract; and to submit any questions for interpretation of this guidance to the official identified below. Pending final decision, the information involved shall be handled and protected at the highest level of classification assigned or recommended. (*Fill in as appropriate for the classified effort. Attach, or forward under separate correspondence, any documents/guides/extracts referenced herein. Add additional pages as needed to provide complete guidance.*)

Access to classified information is not required for the purpose of submitting a bid/proposal for this statement of work. However, prior to award of contract, the successful contractor will be required to have a SECRET facility clearance, SECRET storage capabilities, and personnel available with DoD granted personnel security clearances commensurate with level of access required for performance of contract.

14. ADDITIONAL SECURITY REQUIREMENTS. Requirements, in addition to ISM requirements, are established for this contract. ☐ Yes ☒ No
(*If Yes, identify the pertinent contractual clauses in the contract document itself, or provide an appropriate statement which identifies the additional requirements. Provide a copy of the requirements to the cognizant security office. Use Item 13 if additional space is needed.*)

15. INSPECTIONS. Elements of this contract are outside the inspection responsibility of the cognizant security office. ☐ Yes ☒ No
(*If Yes, explain and identify specific areas or elements carved out and the activity responsible for inspections. Use Item 13 if additional space is needed.*)

16. CERTIFICATION AND SIGNATURE. Security requirements stated herein are complete and adequate for safeguarding the classified information to be released or generated under this classified effort. All questions shall be referred to the official named below.

a. TYPED NAME OF CERTIFYING OFFICIAL

TINA SMALLWOOD

b. TITLE

CONTRACTING OFFICER, SECURITY

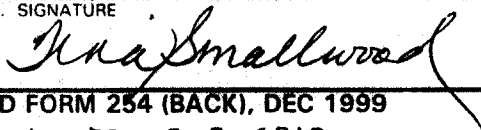
c. TELEPHONE (*Include Area Code*)

(202) 767-2240/2391

d. ADDRESS (*Include Zip Code*)

NAVAL RESEARCH LABORATORY
4555 OVERLOOK AVE., SW
WASHINGTON, DC 20375-5320

e. SIGNATURE



17. REQUIRED DISTRIBUTION

- | | |
|-------------------------------------|---|
| <input checked="" type="checkbox"/> | a. CONTRACTOR |
| <input type="checkbox"/> | b. SUBCONTRACTOR |
| <input checked="" type="checkbox"/> | c. COGNIZANT SECURITY OFFICE FOR PRIME AND SUBCONTRACTOR |
| <input type="checkbox"/> | d. U.S. ACTIVITY RESPONSIBLE FOR OVERSEAS SECURITY ADMINISTRATION |
| <input type="checkbox"/> | e. ADMINISTRATIVE CONTRACTING OFFICER |
| <input checked="" type="checkbox"/> | f. OTHERS AS NECESSARY 1221.11, 5722, 5702 |